

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/021,741B
Source: 1FW/6
Date Processed by STIC: 2/14/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/021,7418

CRF Edit Date: 2/15/05
Edited by: AK

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓ ___ Other: Sequence 2 - corrected spelling of "Sapiens"



IFW16

RAW SEQUENCE LISTING

DATE: 02/15/2005

PATENT APPLICATION: US/10/021,741B

TIME: 11:24:30

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Output Set: N:\CRF4\02152005\J021741B.raw

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3 <110> APPLICANT: University of North Texas Health Science Center at Fort
4      Worth
5      Mathews, Porunellor A.
6      Boles, Kent
8 <120> TITLE OF INVENTION: Immuno activation of CS1 receptor in natural killer cells to
9      inhibit tumor cell growth
11 <130> FILE REFERENCE: 120746.00004
13 <140> CURRENT APPLICATION NUMBER: 10/021,741B
14 <141> CURRENT FILING DATE: 2001-12-12
16 <160> NUMBER OF SEQ ID NOS: 5
18 <170> SOFTWARE: PatentIn version 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1083
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo Sapiens
25 <300> PUBLICATION INFORMATION:
26 <301> AUTHORS: Boles,K.S. and Mathew,P.A.
27 <302> TITLE: Molecular cloning of CS1, a novel human natural killer cell
28 <303> JOURNAL: Immunogenetics
29 <304> VOLUME: 52
30 <305> ISSUE: (3-4)
31 <306> PAGES: 302-307
32 <307> DATE: 2001
33 <308> DATABASE ACCESSION NO: AF291815
34 <309> DATABASE ENTRY DATE: 2000-08-01
35 <313> RELEVANT RESIDUES: (1)..(1083)
37 <300> PUBLICATION INFORMATION:
38 <308> DATABASE ACCESSION NO: AF291815
39 <309> DATABASE ENTRY DATE: 2000-08-01
40 <313> RELEVANT RESIDUES: (1)..(1083)
42 <400> SEQUENCE: 1
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44 tcacaggggc agcagcctct ggaccctgtga aagagctggt cggttccggt ggtggggccg      120
47 tgactttccc cctgaagtc aaagtaaagc aagttgactc tattgtctgg accttcaaca      180
49 caaccctct tgtcaccata cagccagaag ggggcactat catagtgacc caaaatcgta      240
51 atagggagag agtagacttc ccagatggag gctactccct gaagctcagc aaactgaaga      300
53 agaatgactc agggatctac tatgtgggga tatacagctc atcactccag cagccctcca      360
55 cccaggagta cgtgctgcat gtctacgagc acctgtcaaa gcctaaagtc accatgggtc      420
57 tgcagagcaa taagaatggc acctgtgtga ccaatctgac atgctgcatg gaacatgggg      480
59 aagaggatgt gatttatacc tgggaaggccc tggggcaagc agccaatgag tcccataatg      540
61 ggtccatcct ccccatctcc tggagatggg gagaaagtga tatgacctc atctgcgttg      600
63 ccaggaaccc tgtcagcaga aacttctcaa gccccatcct tgccaggaag ctctgtgaag      660
65 gtgctgctga tgaccagat tcttccatgg tctcctgtg tctcctgttg gtgcccctcc      720

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71 attctggaga gaacacagag tacgacacaa tccctcacac taatagaaca atcctaaagg 900
73 aagatccagc aaatacgggt tactccactg tggaaatacc gaaaaagatg gaaaatcccc 960
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79 aca 1083

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82 <210> SEQ ID NO: 2

83 <211> LENGTH: 335

84 <212> TYPE: PRT

85 <213> ORGANISM: Homo Sapiens

87 <300> PUBLICATION INFORMATION:

88 <301> AUTHORS: Boles, K.S. and Mathew, P.A.

89 <302> TITLE: Molecular cloning of CS1, a novel human natural killer cell

90 <303> JOURNAL: Immunogenetics

91 <304> VOLUME: 52

92 <305> ISSUE: (3-4)

93 <306> PAGES: 302-307

94 <307> DATE: 2001

95 <308> DATABASE ACCESSION NO: AAK11549

96 <309> DATABASE ENTRY DATE: 2001-08-01

97 <313> RELEVANT RESIDUES: (1)..(335)

99 <300> PUBLICATION INFORMATION:

100 <308> DATABASE ACCESSION NO: AAK11549

101 <309> DATABASE ENTRY DATE: 2001-08-01

102 <313> RELEVANT RESIDUES: (1)..(335)

104 <400> SEQUENCE: 2

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106 Met Ala Gly Ser Pro Thr Cys Leu Thr Leu Ile Tyr Ile Leu Trp Gln
107 1 5 10 15
110 Leu Thr Gly Ser Ala Ala Ser Gly Pro Val Lys Glu Leu Val Gly Ser
111 20 25 30
114 Val Gly Gly Ala Val Thr Phe Pro Leu Lys Ser Lys Val Lys Gln Val
115 35 40 45
118 Asp Ser Ile Val Trp Thr Phe Asn Thr Thr Pro Leu Val Thr Ile Gln
119 50 55 60
122 Pro Glu Gly Gly Thr Ile Val Thr Gln Asn Arg Asn Arg Glu Arg
123 65 70 75 80
126 Val Asp Phe Pro Asp Gly Gly Tyr Ser Leu Lys Leu Ser Lys Leu Lys
127 85 90 95
130 Lys Asn Asp Ser Gly Ile Tyr Tyr Val Gly Ile Tyr Ser Ser Ser Leu
131 100 105 110
134 Gln Gln Pro Ser Thr Gln Glu Tyr Val Leu His Val Tyr Glu His Leu
135 115 120 125
138 Ser Lys Pro Lys Val Thr Met Gly Leu Gln Ser Asn Lys Asn Gly Thr
139 130 135 140
142 Cys Val Thr Asn Leu Thr Cys Cys Met Glu His Gly Glu Glu Asp Val
143 145 150 155 160
146 Ile Tyr Thr Trp Lys Ala Leu Gly Gln Ala Ala Asn Glu Ser His Asn
147 165 170 175

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Input Set : N:\AMC\pto.amc.txt

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150 Gly Ser Ile Leu Pro Ile Ser Trp Arg Trp Gly Glu Ser Asp Met Thr
151          180          185          190
154 Phe Ile Cys Val Ala Arg Asn Pro Val Ser Arg Asn Phe Ser Ser Pro
155          195          200          205
158 Ile Leu Ala Arg Lys Leu Cys Glu Gly Ala Ala Asp Asp Pro Asp Ser
159          210          215          220
162 Ser Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu
163 225          230          235          240
166 Phe Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu
167          245          250          255
170 Glu Tyr Ile Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu Thr Pro
171          260          265          270
174 Asn Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro
175          275          280          285
178 His Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr
179          290          295          300
182 Ser Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu
183 305          310          315          320
186 Thr Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile
187          325          330          335
190 <210> SEQ ID NO: 3
191 <211> LENGTH: 12
192 <212> TYPE: PRT
193 <213> ORGANISM: artificial sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Peptide fragment of mAb for CS1 receptor.
198 <400> SEQUENCE: 3
200 Cys Gln Asn Arg Asn Arg Glu Arg Val Asp Phe Pro
201 1          5          10
204 <210> SEQ ID NO: 4
205 <211> LENGTH: 11
206 <212> TYPE: PRT
207 <213> ORGANISM: artificial sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Peptide fragment of mAb for CS1 receptor.
212 <400> SEQUENCE: 4
214 Cys Met Glu His Gly Glu Glu Asp Val Ile Tyr
215 1          5          10
218 <210> SEQ ID NO: 5
219 <211> LENGTH: 16
220 <212> TYPE: PRT
221 <213> ORGANISM: artificial sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Peptide fragment of mAb for CS1 receptor.
226 <400> SEQUENCE: 5
228 Cys Gln Glu Glu Tyr Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu
229 1          5          10          15

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IFW16

RAW SEQUENCE LISTING

DATE: 02/15/2005

PATENT APPLICATION: US/10/021,741B

TIME: 11:19:31

Input Set : N:\CrF4\02142005\J021741.raw

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1 <110> APPLICANT: University of North Texas Health Science Center at Fort
 2 Worth
 3 Mathews, Porunellor A.
 4 Boles, Kent
 5 <120> TITLE OF INVENTION: Immuno activation of CS1 receptor in natural killer cells to
 6 inhibit tumor cell growth
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 23 <306> PAGES: 302-307
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 30 <309> DATABASE ENTRY DATE: 2000-08-01
 31 <313> RELEVANT RESIDUES: (1)..(1083)
 32 <400> SEQUENCE: 1
 33 cagagagcaa tatggctggt tccccaacat gcctcaccct catctatata ctttgggcagc 60
 34 tcacagggtc agcagcctct ggaccctgta aagagctggt cggttccggt ggtggggccg 120
 35 tgactttccc cctgaagtcc aaagtaaagc aagttgactc tattgtctgg accttcaaca 180
 36 caaccctctt tgtcaccata cagccagaag ggggcactat catagtgacc caaaatcgta 240
 37 ataggagag agtagacttc ccagatggag gctactccct gaagctcagc aaactgaaga 300
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 42 ggtccatcct ccccatctcc tggagatggg gagaaagtga tatgacctc atctgcgttg 600
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Does Not Comply
Corrected Diskette Needed

p. 2

RAW SEQUENCE LISTING

DATE: 02/15/2005

PATENT APPLICATION: US/10/021,741B

TIME: 11:19:31

Input Set : N:\Cr4\02142005\J021741.raw

Output Set: N:\CRF4\02152005\J021741B.raw

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47      attctggaga gaacacagag tacgacacaa tccctcacac taatagaaca atcctaaagg      900
48      aagatccagc aaatacgggt tactccactg tggaataacc gaaaaagatg gaaaatcccc      960
49      actcactgct cagcatgcca gacacaccaa ggctatttgc ctatgagaat gttatctaga     1020
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51      aca                                                                    1083

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53 <210> SEQ ID NO: 2

54 <211> LENGTH: 335

55 <212> TYPE: PRT

56 <213> ORGANISM: Homo *Sapiens*

57 <300> PUBLICATION INFORMATION:

58 <301> AUTHORS: Boles, K.S. and Mathew, P.A.

59 <302> TITLE: Molecular cloning of CS1, a novel human natural killer cell

60 <303> JOURNAL: Immunogenetics

61 <304> VOLUME: 52

62 <305> ISSUE: (3-4)

63 <306> PAGES: 302-307

64 <307> DATE: 2001

65 <308> DATABASE ACCESSION NO: AAK11549

66 <309> DATABASE ENTRY DATE: 2001-08-01

67 <313> RELEVANT RESIDUES: (1)..(335)

68 <300> PUBLICATION INFORMATION:

69 <308> DATABASE ACCESSION NO: AAK11549

70 <309> DATABASE ENTRY DATE: 2001-08-01

71 <313> RELEVANT RESIDUES: (1)..(335)

72 <400> SEQUENCE: 2

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75      Leu Thr Gly Ser Ala Ala Ser Gly Pro Val Lys Glu Leu Val Gly Ser
76      20          25          30
77      Val Gly Gly Ala Val Thr Phe Pro Leu Lys Ser Lys Val Lys Gln Val
78      35          40          45
79      Asp Ser Ile Val Trp Thr Phe Asn Thr Thr Pro Leu Val Thr Ile Gln
80      50          55          60
81      Pro Glu Gly Gly Thr Ile Val Thr Gln Asn Arg Asn Arg Glu Arg
82      65          70          75          80
83      Val Asp Phe Pro Asp Gly Gly Tyr Ser Leu Lys Leu Ser Lys Leu Lys
84      85          90          95
85      Lys Asn Asp Ser Gly Ile Tyr Tyr Val Gly Ile Tyr Ser Ser Ser Leu
86      100         105         110
87      Gln Gln Pro Ser Thr Gln Glu Tyr Val Leu His Val Tyr Glu His Leu
88      115         120         125
89      Ser Lys Pro Lys Val Thr Met Gly Leu Gln Ser Asn Lys Asn Gly Thr
90      130         135         140
91      Cys Val Thr Asn Leu Thr Cys Cys Met Glu His Gly Glu Glu Asp Val
92      145         150         155         160
93      Ile Tyr Thr Trp Lys Ala Leu Gly Gln Ala Ala Asn Glu Ser His Asn
94      165         170         175

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Input Set : N:\Cr4\02142005\J021741.raw

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95      Gly Ser Ile Leu Pro Ile Ser Trp Arg Trp Gly Glu Ser Asp Met Thr
96              180              185              190
97      Phe Ile Cys Val Ala Arg Asn Pro Val Ser Arg Asn Phe Ser Ser Pro
98              195              200              205
99      Ile Leu Ala Arg Lys Leu Cys Glu Gly Ala Ala Asp Asp Pro Asp Ser
100             210             215             220
101      Ser Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu
102             225             230             235             240
103      Phe Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu
104              245              250              255
105      Glu Tyr Ile Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu Thr Pro
106              260              265              270
107      Asn Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro
108              275              280              285
109      His Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr
110             290             295             300
111      Ser Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu
112             305             310             315             320
113      Thr Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile
114              325              330              335
116 <210> SEQ ID NO: 3
117 <211> LENGTH: 12
118 <212> TYPE: PRT
119 <213> ORGANISM: artificial sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Peptide fragment of mAb for CS1 receptor.
122 <400> SEQUENCE: 3
123      Cys Gln Asn Arg Asn Arg Glu Arg Val Asp Phe Pro
124      1              5              10
126 <210> SEQ ID NO: 4
127 <211> LENGTH: 11
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129 <213> ORGANISM: artificial sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Peptide fragment of mAb for CS1 receptor.
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140 <220> FEATURE:
141 <223> OTHER INFORMATION: Peptide fragment of mAb for CS1 receptor.
142 <400> SEQUENCE: 5
143      Cys Gln Glu Glu Tyr Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu
144      1              5              10              15

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/15/2005
PATENT APPLICATION: US/10/021,741B TIME: 11:19:32

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Output Set: N:\CRF4\02152005\J021741B.raw

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DATE: 02/15/2005

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TIME: 11:19:32

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